CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 06.01.2018

TEST REPORT

CLIENT	:	**Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
AGENCY	:	**Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	395 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

Note:

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

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b No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date : 06.01.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

lient : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
gency : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of Work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Date of Testing : 06.01.2018
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	82	8.20	8.20	91.8	90-100
2.36	156	15.60	23.80	76.2	75-100
1.18	149	14.90	38.70	61.3	55-90
600 Micron	123	12.30	51.00	49.0	35-59
300 Micron	198	19.80	70.80	29.2	8-30
150 Micron	215	21.50	92.30	7.7	0-10

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b No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date : 06.01.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

lient : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
gency : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of Work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Date of Testing : 06.01.2018
Material : 40mm

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	234	1.56	1.56	98.44	95-100
20	8425	56.17	57.73	42.27	30-70
10	3126	20.84	78.57	21.43	10-35
4.75	2563	17.09	95.65	4.35	0-5

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b No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date : 06.01.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

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)ate of Testing : 06.01.2018
Iaterial : 20mm

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	**Weight Retained (gm)**	**Retained Weight in %**	**Cumulative Retained Weight in %**	**Cumulative Weight Passing in %**	**Spec.Limits**
40	0	0	0	100	100
20	83	1.7	1.7	98.3	95-100
10	2598	52.0	53.6	46.4	25-55
4.75	1847	36.9	90.6	9.4	0-10

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date : 06.01.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of Work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Date of Testing : 06.01.2018
Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	23	2.30	2.30	97.7	95-100
2.36	11	1.10	3.40	96.6	95-100
1.18	34	3.40	6.80	93.2	90-100
600 Micron	73	7.30	14.10	85.9	80-100
300 Micron	234	23.40	37.50	62.5	20-65
150 Micron	512	51.20	88.70	11.3	0-15

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date : 06.01.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of Work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.

Date of Testing : 06.01.2018

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	65	6.50	7.90	92.1	70-100
600 Micron	94	9.40	17.30	82.7	40-100
300 Micron	263	26.30	43.60	56.4	5-.70
150 Micron	482	48.20	91.80	8.2	0-15

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 05.02.2018

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of the work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Sample ID : Cement Mortar
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 2500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008) & IS: 2250-1981

Compressive Strength as on 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2018	05.02.2018	0.784	12.8	5.12
2	08.01.2018	05.02.2018	0.795	13.4	5.36
3	08.01.2018	05.02.2018	0.762	13.6	5.44

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 05.02.2018

TEST REPORT ON CEMENT MORTAR CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of the work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Sample ID : Cement Mortar - Plastering
Size of cubes : 50mmx50mmx50mm
Cross Sectional Area : 2500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008) & IS: 2250-1981
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2018	05.02.2018	0.772	12.9	5.16
2	08.01.2018	05.02.2018	0.784	13.3	5.32
3	08.01.2018	05.02.2018	0.768	13.5	5.40

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 15.01.2018

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work : Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{10}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2018	15.01.2018	8.102	158.9	7.06
2	08.01.2018	15.01.2018	8.116	189.4	8.42
3	08.01.2018	15.01.2018	8.128	175.3	7.79

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 05.02.2018

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M Krishnamurthy,** Contractor, Bangalore.
Name of the work : Improvements to road, drain and otheer works in Khatha Nagar in Ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in Ward No.16, BBMP, Bangalore.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{10}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2018	05.02.2018	8.139	289.5	12.87
2	08.01.2018	05.02.2018	8.152	294.5	13.09
3	08.01.2018	05.02.2018	8.164	274.6	12.20

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